

**COMPLETE SAMPLE DELIVERY GROUP FILE (CSF)  
EVIDENCE AUDIT CHECKLIST  
U.S. Environmental Protection Agency - Region 8  
Environmental Services Division, Multi-Media Branch  
Analytical Operations Section**

Audit Number: 08-16-08 Site Name: Richardson Flat Tailing  
Date CSF Received: 12/3/07 Site Manager: Kathryn Harvey  
Received By: Cain Bump RAS Number: 36948  
Date of Audit: 12/11/07 ULSA Number: MAA 2310  
Audited By: Cain Bump SDG Number: 20/4/5  
Resubmitted CSF? Yes      No      Number of Samples: 20/4/5  
Lab Name: A-4 Scientific Inc. CLP Lab Code: A-4  
Lab Location: The Woodlands, TX

**AUDIT CHECKLIST**

**CHAIN OF CUSTODY**

- |   |   |
|---|---|
| 1. Custody Seal Present?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 2. Condition of Seal? Intact <input checked="" type="checkbox"/> Signed <input checked="" type="checkbox"/> Broken <input type="checkbox"/> Unsigned <input type="checkbox"/> |   |
| 3. Chain of Custody Record(s) Present?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 4. Chain of Custody Record(s) Signed?   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 5. Chain of Custody Record(s) Dated?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 6. Traffic Report(s) or Packing List(s) Present?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 7. Traffic Report(s) or Packing List(s) Signed?   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 8. Airbill Present?   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 9. Airbill Number(s): <u>863/98575033</u>   |   |
| 10. Airbill Signed?   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 11. Airbill Dated?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 12. Sample Tags Present?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| 13. Should Sample Tags be Present?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |

AUDIT NUMBER: 08-16-08

FORM DC-2

14. Form DC-2 Present?  
15. Numbering Scheme on Form DC-2 Correct?  
16. Enclosed Documents Listed?  
17. Listed Documents Enclosed?

Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐

FORM DC-1

18. Form DC-1 Present?  
19. Form DC-1 Complete?  
20. Form DC-1 Correct?

Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐

DOCUMENT CONTROL

21. Laboratory Documents Complete?  
22. Laboratory Documents Legible?  
23. Original Documents Included in CSF?

Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐

DATA INSPECTION

4. Form I's present (for each analytical fraction as defined by the Traffic Report/Chain of Custody Record)?  
5. Forms 2 through 8 (VOC & SVOC), Forms 2 through 10 (Pesticides), Forms 2 through 14 (Metals & Cyanide) present?  
5. Raw data present (for each analytical fraction as defined by the Traffic Report/Chain of Custody Record)?  
Percent Solids Form present for soil samples?

Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐  
Yes ☒ No ☐

TE: If items 1, 3, 4, 6, 7, 8, 12, 14, 18, or 22 are missing, corrective action measures must be taken by the CSF auditor and summarized below.

AUDIT NUMBER: 08-16-08

COMMENTS AND NOTES:

Camp

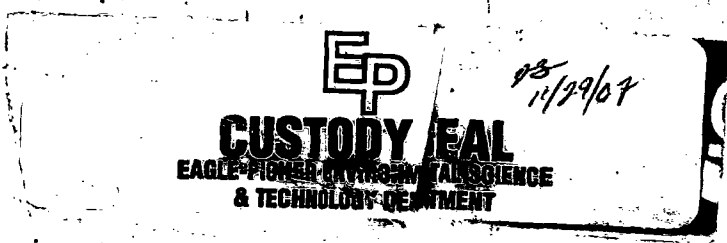
12/11/07

Auditor

Date

EPA OFFICIAL SEALS PAGE

please attach all custody seals below:



AUDIT NUMBER: 08-16-08

EPA CLP ELECTRONIC DISKETTE(S)

CASE #: 36948 SDG #: MH23H0

SITE NAME: Richardson Flat Tailings

RPM: Kathryn Hernandez

DATE: 12/11/07

AUDITOR: Carla Gump

Audit # 08-16-08

RAS # 36948

Site - Richardson Flat

RPM - Kathryn Hernandez <sup>tailings</sup>

SDG - MH23H0

Date - 12/11/07

LAB - A-4

## USEPA-CLP

## COVER PAGE

Lab Name: A4 Scientific, Inc. Contract: EPW06057  
 Lab Code: A4 Case No: 36948 NRAS No.: \_\_\_\_\_ SDG No: MH23H0  
 SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
MH23H0	0008708-01
MH23H1	0008708-02
MH23H2	0008708-03
MH23H3	0008708-04
MH23H4	0008708-05
MH23H5	0008708-06
MH23H6	0008708-07
MH23H7	0008708-08
MH23H7D	0008708-08D
MH23H7S	0008708-08S
MH23H8	0008708-09
MH23H9	0008708-10
MH23J0	0008708-11
MH23J1	0008708-12
MH23J2	0008708-13
MH23J3	0008708-14
MH23J4	0008708-15
MH23J5	0008708-16
MH23J6	0008708-17
MH23J7	0008708-18

	(Yes/No)	ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?		<u>YES</u>	<u>YES</u>
Were ICP-AES and ICP-MS background corrections applied?		<u>YES</u>	<u>YES</u>
If yes, were raw data generated before application of background corrections?		<u>NO</u>	<u>NO</u>

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Reddy Pakanati Name: REDDY PAKANATI  
 Date: 11/29/07 Title: LABORATORY MANAGER 0000000001

## USEPA-CLP

## COVER PAGE

Lab Name: A4 Scientific, Inc. Contract: EPW06057  
Lab Code: A4 Case No: 36948 NRAS No.: \_\_\_\_\_ SDG No: MH23H0  
SOW No.: ILM05.4

EPA Sample No.

Lab Sample ID

MH23J80008708-19MH23J90008708-20

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	<u>YES</u>	<u>YES</u>
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	<u>YES</u>	<u>YES</u>
If yes, were raw data generated before application of background corrections?	(Yes/No)	<u>NO</u>	<u>NO</u>

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: \_\_\_\_\_

*Reddy Pakanati*

Name: \_\_\_\_\_

REDDY PAKANATI

Date: \_\_\_\_\_

11/29/07

Title: \_\_\_\_\_

LABORATORY MANAGER0000000002

**A4 SCIENTIFIC, INC.**

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

**Contract #: EPW06057****Case #: 36948****SDG #: MH23H0****SDG NARRATIVE****SAMPLE RECIEPT & LOGIN**

The following samples were received on the dates listed against them. The samples were logged in for analysis as listed.

EPA SAMPLE #	LAB SAMPLE #	DATE/TIME RECEIVED	AIRBILL NO.	ANALYSIS	Total # of Containers Received	REMARKS	MATRIX
MH23H0	0008708-01	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23H1	0008708-02	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23H2	0008708-03	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23H3	0008708-04	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23H4	0008708-05	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23H5	0008708-06	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23H6	0008708-07	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23H7	0008708-08	11/9/07 09:43	863198575033	ICP-AES	1	MS/DUP	SOIL
MH23H8	0008708-09	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23H9	0008708-10	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23J0	0008708-11	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23J1	0008708-12	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23J2	0008708-13	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23J3	0008708-14	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23J4	0008708-15	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23J5	0008708-16	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23J6	0008708-17	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23J7	0008708-18	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23J8	0008708-19	11/9/07 09:43	863198575033	ICP-AES	1		SOIL
MH23J9	0008708-20	11/9/07 09:43	863198575033	ICP-AES	1		SOIL

ICP-AES

**Issue:** Samples for case 36948 were received on 11/9/2007. TR/COC listed tag numbers did not match physical tag numbers.

**Resolution:** Per Region 8 Lab recorded the physical sample tag number on form DC-1 and proceeded with analysis of samples.

**Issue:** For samples received on 11/9, there was no temperature blank in the cooler. The cooler temperatures were determined to be 4 degrees. The following method was used to record cooler temperature. Lab removed ice between two sample containers and placed thermometers between sample containers and stabilized for several minutes. The thermometer was not allowed to come in contact with any material except sample containers. The temperature of the shipping container was recorded on the TR/COC and form DC-1.

**Resolution:** Per direction from Region 8, the laboratory, proceed with the analysis of the samples.

**Issue:** There were no custody seals on any of the coolers.

**Resolution:** Per Region 8, proceed with the analysis of the samples.

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# A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

Contract #: EPW06057

Case #: 36948

SDG #: MH23H0

## SDG NARRATIVE

**Issue:** The lab received 121 samples in 5 coolers. There were 2 samples designated for lab QC in each cooler. The lab has a total of 6 SDG, and 10 QC samples designated. Lab confirmed if both designated Lab QC's were to be analyzed or if lab was to select only one per SDG.

**Resolution:** Per Region 8, the laboratory selected one of the designated samples for laboratory QC per SDG and proceeded with analysis of samples.

Lab selected sample MH23H7 and notified SMO.

**Issue:** The following samples contained less than 50% solid.

MH23H8- 40%

MH23J0- 46.5%

**Resolution:** Per Region 8, the laboratory has proceeded with the analysis of the samples.

SMO was notified. Directive is enclosed. No other discrepancies of issues were noted during receipt and login.

## ICP-AES

Soil Samples were digested by Hot-Block technique (HS2) and analyzed using a Thermo Electron ICAP6500.

MS and DUP were performed on sample "MH23H7" and they were within the QC limits.

Analytes with Serial Dilution percent difference not within the control limits are flagged with "E" on Form1s and Form8.

The following equations are used for calculation of sample results from raw instrument output data:

## ICP-AES

### SOIL Samples:

$$\text{Concentration (dry Wt.) (mg/kg)} = \frac{C * V}{W * S} * DF$$

Where,

C = Concentration (mg/L)

V = Final sample volume in Liters (L) (0.1L)

W = Wet sample weight (kg) (0.001kg)

S = % solids/100

DF = Dilution Factor

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SAMPLE LOG-IN SHEET

Lab Name <b>A4 SCIENTIFIC, INC.</b>				Page <u>1</u> of <u>1</u>	
Received By (Print Name) <u>Larry Goodson</u>				Log-in Date <u>11-9-07</u>	
Received By (Signature) <u>[Signature]</u>					
Case Number <u>36948</u>		Sample Delivery Group No. <u>MH23H0</u>			NRAS Number <u>1</u>
Remarks:		EPA Sample #	Aqueous Sample pH	Corresponding	
				Sample Tag #	Assigned Lab #
					Remarks: Condition of Sample Shipment, etc.
1. Custody Seal(s)	Present/Absent* Intact/Broken	<u>MH23H0</u>		<u>8309988</u>	<u>0008708</u> <u>Intact</u>
2. Custody Seal Nos.	<u>N/A</u>	<u>H1</u>		<u>8309982</u>	<u>-01</u> <u>1-2 pick</u>
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*	<u>H2</u>		<u>983</u>	<u>-03</u>
4. Airbill	Airbill/Sticker Present/Absent*	<u>H3</u>		<u>978</u>	<u>-04</u>
5. Airbill No.	<u>863198574089</u>	<u>H4</u>		<u>980</u>	<u>-05</u>
6. Sample Tags	Present/Absent*	<u>H5</u>		<u>981</u>	<u>-06</u>
Sample Tag Numbers	Listed/Not Listed on Traffic Report/Chain of Custody Record	<u>H6</u>		<u>969</u>	<u>-07</u>
7. Sample Condition	Intact/Broken*/Leaking	<u>H7</u>		<u>965</u>	<u>-08</u>
8. Cooler Temperature Indicator Bottle	Present/Absent*	<u>H8</u>		<u>989</u>	<u>-09</u>
9. Cooler Temperature	<u>4°C</u>	<u>H9</u>		<u>971</u>	<u>-10</u>
10. Does information on Traffic Reports/Chain of Custody Records and sample tags agree?	Yes/No*	<u>MH23J0</u>		<u>985</u>	<u>-11</u>
		<u>J1</u>		<u>967</u>	<u>-12</u>
		<u>J2</u>		<u>966</u>	<u>-13</u>
11. Date Received at Lab	<u>11/9/07</u>	<u>J3</u>		<u>83111 94</u>	<u>-14</u>
12. Time Received	<u>9:43u</u>	<u>J4</u>		<u>8309963</u>	<u>-15</u>
Sample Transfer		<u>J5</u>		<u>8309979</u>	<u>-16</u>
Fraction <u>MHS</u>	Fraction	<u>J6</u>		<u>8309986</u>	<u>-17</u>
Area # <u>Cooler A</u>	Area #	<u>J7</u>		<u>8309973</u>	<u>-18</u>
By <u>[Signature]</u>	By	<u>J8</u>		<u>8309987</u>	<u>-19</u>
On <u>11/9/07</u>	On <u>11/12/07</u>	<u>J9</u>		<u>1 972</u>	<u>-20</u>

\* Contact SMO and attach record of resolution

Reviewed By <u>[Signature]</u>	Logbook No. <u>NA</u>
Date <u>11/12/07</u>	Logbook Page No. <u>1</u>

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME <u>A4 SCIENTIFIC, INC.</u>	
CITY/STATE <u>THE WOODLANDS, TX</u>	
CASE NO. <u>36948</u>	SDG NO. <u>MH23N0</u>
SDG NOS. TO FOLLOW <u>NA</u>	
NRAS NO. <u>NA</u>	
CONTRACT NO. <u>EPW06057</u>	
SOW NO. <u>ILM05.4</u>	

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.6)

	PAGE NOS.		CHECK	
	FROM	TO	LAB	REGION
1. Cover Page	<u>1</u>	<u>2</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2. SDG Narrative	<u>3</u>	<u>4</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3. Sample Log-In Sheet (DC-1)	<u>5</u>	<u>5</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4. Inventory Sheet (DC-2))	<u>6</u>	<u>7</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5. Traffic Report/Chain of Custody Record(s)	<u>8</u>	<u>10</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Inorganic Analysis				
6. Data Sheet (Form I-IN)	<u>13</u>	<u>32</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7. Initial & Continuing Calibration Verification (Form IIA-IN)	<u>33</u>	<u>36</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8. CRQL Standard (Form IIB-IN)	<u>37</u>	<u>38</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
9. Blanks (Form III-IN)	<u>39</u>	<u>40</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10. ICP-AES Interference Check Sample (Form IVA-IN)	<u>41</u>	<u>42</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11. ICP-MS Interference Check Sample (Form IVB-IN)	<u>NA</u>	<u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Matrix Spike Sample Recovery (Form VA-IN)	<u>43</u>	<u>43</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13. Post-Digestion Spike Sample Recovery (Form VB-IN)	<u>NA</u>	<u>NA</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. Duplicates (Form VI-IN)	<u>44</u>	<u>44</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
15. Laboratory Control Sample (Form VII-IN)	<u>45</u>	<u>45</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	<u>46</u>	<u>46</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
17. Method Detection Limits (Annually) (Form IX-IN)	<u>47</u>	<u>49</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
18. ICP-AES Interelement Correction Factors (Quarterly) (Form XA-IN)	<u>50</u>	<u>50</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
19. ICP-AES Interelement Correction Factors (Quarterly) (Form XB-IN)	<u>51</u>	<u>51</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) (Form XI-IN)	<u>52</u>	<u>52</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21. Preparation Log (Form XII-IN)	<u>53</u>	<u>53</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22. Analysis Run Log (Form XIII-IN)	<u>54</u>	<u>55</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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	PAGE NOS.		CHECK	
	FROM	TO	LAB	REGION
23. ICP-MS Tune (Form XIV-IN)	NA	NA	✓	—
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	1	1	✓	—
25. ICP-AES Raw Data	56	256	✓	✓
26. GFAA Raw Data (If Applicable)	NA	NA	✓	—
27. ICP-MS Raw Data	1	1	✓	—
28. Mercury Raw Data	1	1	✓	—
29. Cyanide Raw Data	—	—	✓	—
30. Preparation Logs Raw Data	257	279	✓	✓
31. Percent Solids Determination Log	279	280	✓	✓
32. USEPA Shipping/Receiving Documents Airbill (No. of Shipments <u>1</u> )	281	281	✓	✓
Sample Tags	282	288	✓	✓
Sample Log-In Sheet (Lab)	289	290	✓	✓
33. Misc. Shipping/Receiving Records (list all individual records)	NA	NA	✓	—
Telephone Logs	1	1	✓	—
NA	1	1	✓	—
34. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)				
Custody logbook	291	291	✓	✓
NA	NA	NA	✓	—
35. Internal Original Sample Prep & Analysis Records (describe or list)				
Prep Records Digestion logs	257	258	✓	✓
Analysis Records Run logs	259	264	✓	✓
Description Standard prep logs	265	278	✓	✓
36. Other Records (describe or list)				
Telephone Communications Log	NA	NA	✓	—
Emails	292	300	✓	✓
NA	NA	NA	✓	—
37. Comments: pg. 11-12 were misplaced & VOIDed, as 11/29/07				

as 11/29/07

Completed by: Jessica Schuler Jessica Schuler sample Custodian 11/29/07  
 (CLP Lab) (Signature) (Print Name & Title) (Date)

Audited by: Carl Bear Carl Bear 12/11/07  
 (USEPA) (Signature) (Print Name & Title) (Date)

**SAMPLE DELIVERY GROUP (SDG)  
COVER SHEET**

SDG Number: MH23H0

☒ ICP-AES Analysis

☐ ICP-MS Analysis

Laboratory Name: A4 SCIENTIFIC, INC.

Laboratory Code: A4

Contract No.: EPW06057

Case No.: 36948

Analysis Price: \_\_\_\_\_

SDG Turnaround: 21 days

Modified Analysis (if applicable):

Modification Reference No.: \_\_\_\_\_

**EPA Sample Numbers in SDG (Listed in Numerical Order)**

1) MH23H0	7) MH23H6	13) MH23J2	19) MH23J8
2) MH23H1	8) MH23H7	14) MH23J3	20) MH23J9
3) MH23H2	9) MH23H8	15) MH23J4	21)
4) MH23H3	10) MH23H9	16) MH23J5	22)
5) MH23H4	11) MH23J0	17) MH23J6	23)
6) MH23H5	12) MH23J1	18) MH23J7	24)

MH23H0

First Sample in SDG

MH23J9

Last Sample in SDG

11/09/2007

First Sample Receipt Date

11/09/2007

Last Sample Receipt Date

**Note:** There are a maximum of 20 **field** samples [excluding Performance Evaluation (PE) Samples] in an SDG. Attach the TR/COC Records to this form in alphanumeric order (the order listed above on this form).

Jessica Schulte  
Signature

11/9/07  
Date



Cooler 1

**USEPA Contract Laboratory Program  
Inorganic Traffic Report & Chain of Custody Record**Case No: 36948  
DAS No:  
SDG No: MH 23H0

L

Date Shipped: Carrier Name: FedEx Airbill: Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	<b>Chain of Custody Record</b>		Sampler Signature: <i>Ch Hayes</i>
	Relinquished By	(Date / Time)	Received By
	1 Chris Hayes	11/06/07 8AM	Janna Simonsen 11/06/07
	2 Janna Simonsen	11/06/07 11AM	
	3		
4		J. Schu G. 11/9/07 943	
<b>For Lab Use Only</b>			
Lab Contract No: EPW06057			
Unit Price: 0			
Transfer To: 2			
Lab Contract No:			
Unit Price:			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH23H0	Surface Soil (0"-12")/	M/G	TM (21)	TAG0 (1)	UE02-CNTY-0.5	S: 10/29/2007 15:00		
MH23H1	Chris Hayes Surface Soil (0"-12")/	M/G	TM (21)	TAG1 (1)	UE03-29-0.5	S: 10/29/2007 17:30		
MH23H2	April Turney Surface Soil (0"-12")/	M/G	TM (21)	TAG2 (1)	UE03-CNTY-0.5	S: 10/29/2007 14:35		
MH23H3	April Turney Surface Soil (0"-12")/	M/G	TM (21)	TAG3 (1)	UE04-29-0.5	S: 10/29/2007 16:40		
MH23H4	April Turney Surface Soil (0"-12")/	M/G	TM (21)	TAG4 (1)	UE04-29-1.0	S: 10/29/2007 17:10		
MH23H5	April Turney Surface Soil (0"-12")/	M/G	TM (21)	TAG5 (1)	UE04-CNTY-0.5	S: 10/29/2007 15:20		
MH23H6	April Turney Surface Soil (0"-12")/	M/G	TM (21)	TAG6 (1)	UE05-29-0.5	S: 10/29/2007 16:20		
MH23H7	April Turney Surface Soil (0"-12")/	M/G	TM (21)	TAG7 (1)	UE05-CNTY-0.5	S: 10/30/2007 10:15		
MH23H8	April Turney Surface Soil (0"-12")/	M/G	TM (21)	TAG8 (1)	UE07-28A1X-0.5	S: 10/29/2007 14:00		
MH23H9	April Turney Surface Soil (0"-12")/	M/G	TM (21)	TAG9 (1)	UE07-29-0.5	S: 10/29/2007 16:05		
	April Turney							

0008768 - 01 Intact  
11/9/07 - 02  
- 03  
- 04  
- 05  
- 06  
- 07  
- 08  
- 09  
- 010

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MH23H7, MH23K1	Additional Sampler Signature(s): <i>11/9/07</i>	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: <i>11/9/07</i>
Analysis Key: TM = CLP TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <i>3</i>	Shipment Iced? <i>4</i>

TR Number: 8-065602925-110607-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.  
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

F2/5.1.047 Page 1 of 3



# USEPA Contract Laboratory Program Inorganic Traffic Report & Chain of Custody Record

Case No:	36948
DAS No:	
SDG No:	MH 23H0
For Lab Use Only	
Lab Contract No:	EPW06057
Unit Price:	0
Transfer To:	
Lab Contract No:	
Unit Price:	

Date Shipped:	Carrier Name: FedEx	Airbill:	Shipped to: A4 Scientific 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277
Chain of Custody Record			
Relinquished By	(Date / Time)	Received By	(Date / Time)
1 Chris Hayes	11/6/07 8AM	Janna Simonsen	11/6/07
2 Janna Simonsen	11/8/07 11AM		
3			
4		J. Schulz	11/9/07 943

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
MH23J0	Surface Soil (0"-12")	M/G	TM (21)	TAG10 (1)	UE07-28A1X-1.0	S: 10/29/2007 14:15	0008708	-011 Intact
MH23J1	April Turney Surface Soil (0"-12")	M/G	TM (21)	TAG11 (1)	UE08-29-0.5	S: 10/29/2007 15:45		-012
MH23J2	April Turney Surface Soil (0"-12")	M/G	TM (21)	TAG12 (1)	UE11-CNTY-0.5	S: 10/30/2007 11:20		-013
MH23J3	April Turney Surface Soil (0"-12")	M/G	TM (21)	TAG13 (1)	UE13-CNTY-1.0	S: 10/30/2007 13:35		-014
MH23J4	April Turney Surface Soil (0"-12")	M/G	TM (21)	TAG14 (1)	UE14-CNTY-0.5	S: 10/30/2007 13:10		-015
MH23J5	April Turney Surface Soil (0"-12")	M/G	TM (21)	TAG15 (Ice Only) (1)	UE01-28A1X-0.5	S: 10/29/2007 9:25		-016
MH23J6	Chris Hayes Surface Soil (0"-12")	M/G	TM (21)	TAG16 (1)	UE01-29-0.5	S: 10/29/2007 11:30		-017
MH23J7	Chris Hayes Surface Soil (0"-12")	M/G	TM (21)	TAG17 (1)	UE01-CNTY-0.5	S: 10/29/2007 12:00		-018
MH23J8	Chris Hayes Surface Soil (0"-12")	M/G	TM (21)	TAG18 (1)	UE01-RR-0.5	S: 10/29/2007 14:45		-019
MH23J9	Chris Hayes Surface Soil (0"-12")	M/G	TM (21)	TAG19 (1)	UE02-28A1X-0.5	S: 10/29/2007 10:00		-020 Final

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MH23H7, MH23K1	Additional Sampler Signature(s): <i>11/9/07</i>	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: <i>11/9/07</i>
Analysis Key: TM = CLP TAL Total Metals	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <i>11/9/07</i>	Shipment Iced? <i>11/9/07</i>

TR Number: 8-065602925-110607-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.  
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

LABORATORY COPY

FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME <u>A4 SCIENTIFIC, INC.</u>	
CITY/STATE <u>THE WOODLANDS, TX</u>	
CASE NO. _____	SDG NO. _____
SDG NOS. TO FOLLOW _____	
NRAS NO. _____	
CONTRACT NO. <u>EPWD6057</u>	
SOW NO. <u>ILM05.4</u>	

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.6)

	PAGE NOS.		CHECK	REGION
	FROM	TO	LAB	
1. Cover Page	_____	_____	_____	_____
2. SDG Narrative	_____	_____	_____	_____
3. Sample Log-In Sheet (DC-1)	_____	_____	_____	_____
4. Inventory Sheet (DC-2)	_____	_____	_____	_____
5. Traffic Report/Chain of Custody Record(s)	_____	_____	_____	_____
Inorganic Analysis				
6. Data Sheet (Form I-IN)	_____	_____	_____	_____
7. Initial & Continuing Calibration Verification (Form IIA-IN)	_____	_____	_____	_____
8. CROL Standard (Form IIB-IN)	_____	_____	_____	_____
9. Blanks (Form III-IN)	_____	_____	_____	_____
10. ICP-AES Interference Check Sample (Form IVA-IN)	_____	_____	_____	_____
11. ICP-MS Interference Check Sample (Form IVB-IN)	_____	_____	_____	_____
12. Matrix Spike Sample Recovery (Form VA-IN)	_____	_____	_____	_____
13. Post-Digestion Spike Sample Recovery (Form VB-IN)	_____	_____	_____	_____
14. Duplicates (Form VI-IN)	_____	_____	_____	_____
15. Laboratory Control Sample (Form VII-IN)	_____	_____	_____	_____
16. ICP-AES and ICP-MS Serial Dilutions (Form VIII-IN)	_____	_____	_____	_____
17. Method Detection Limits (Annually) (Form IX-IN)	_____	_____	_____	_____
18. ICP-AES Interelement Correction Factors (Quarterly) (Form XA-IN)	_____	_____	_____	_____
19. ICP-AES Interelement Correction Factors (Quarterly) (Form XB-IN)	_____	_____	_____	_____
20. ICP-AES and ICP-MS Linear Ranges (Quarterly) (Form XI-IN)	_____	_____	_____	_____
21. Preparation Log (Form XII-IN)	_____	_____	_____	_____
22. Analysis Run Log (Form XIII-IN)	_____	_____	_____	_____

2/14/2017

VOID

	PAGE NOS.		CHECK	
	FROM	TO	LAB	REGION
23. ICP-MS Tune (Form XIV-IN)	___	___	___	___
24. ICP-MS Internal Standards Relative Intensity Summary (Form XV-IN)	___	___	___	___
25. ICP-AES Raw Data	___	___	___	___
26. GFAA Raw Data (If Applicable)	___	___	___	___
27. ICP-MS Raw Data	___	___	___	___
28. Mercury Raw Data	___	___	___	___
29. Cyanide Raw Data	___	___	___	___
30. Preparation Logs Raw Data	___	___	___	___
31. Percent Solids Determination Log	___	___	___	___
32. USEPA Shipping/Receiving Documents Airbill (No. of Shipments ___) Sample Tags Sample Log-In Sheet (Lab)	___	___	___	___
33. Misc. Shipping/Receiving Records (list all individual records) Telephone Logs _____ _____	___	___	___	___
34. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list) _____ _____	___	___	___	___
35. Internal Original Sample Prep & Analysis Records (describe or list) Prep Records _____ Analysis Records _____ Description _____	___	___	___	___
36. Other Records (describe or list) Telephone Communications Log _____ _____ _____	___	___	___	___
37. Comments: _____ _____ _____ _____	___	___	___	___

22/12/07

VOTO

Completed by: \_\_\_\_\_  
 (CLP Lab) \_\_\_\_\_  
 (Signature) \_\_\_\_\_ (Print Name & Title) \_\_\_\_\_ (Date) \_\_\_\_\_

Audited by: \_\_\_\_\_  
 (USEPA) \_\_\_\_\_  
 (Signature) \_\_\_\_\_ (Print Name & Title) \_\_\_\_\_ (Date) \_\_\_\_\_